

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480065

Luminaire Tested: **IFLD-S-SA2D-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480065  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

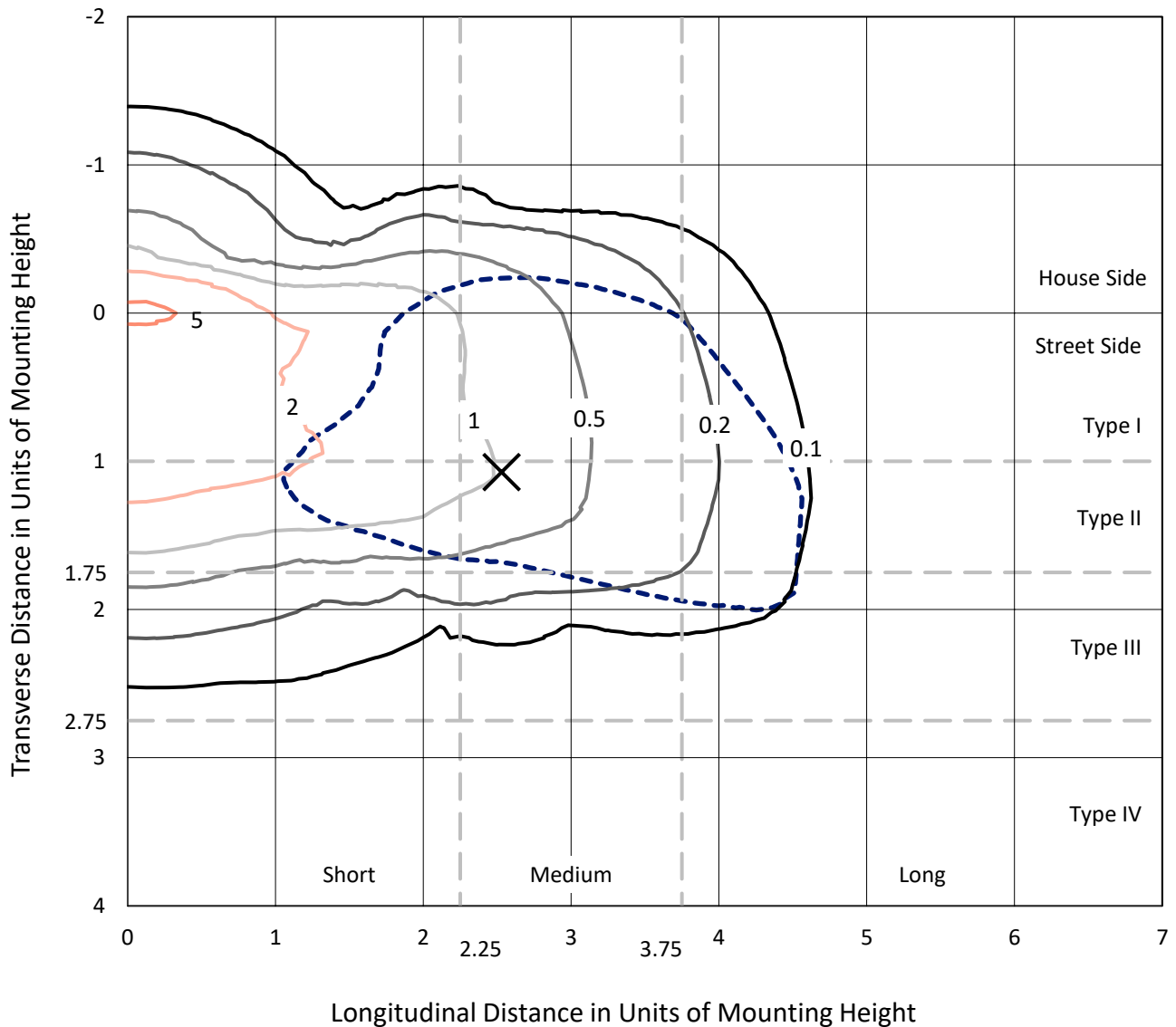
Lumens per Lamp: N/A  
Luminaire Lumens: 15379.9 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

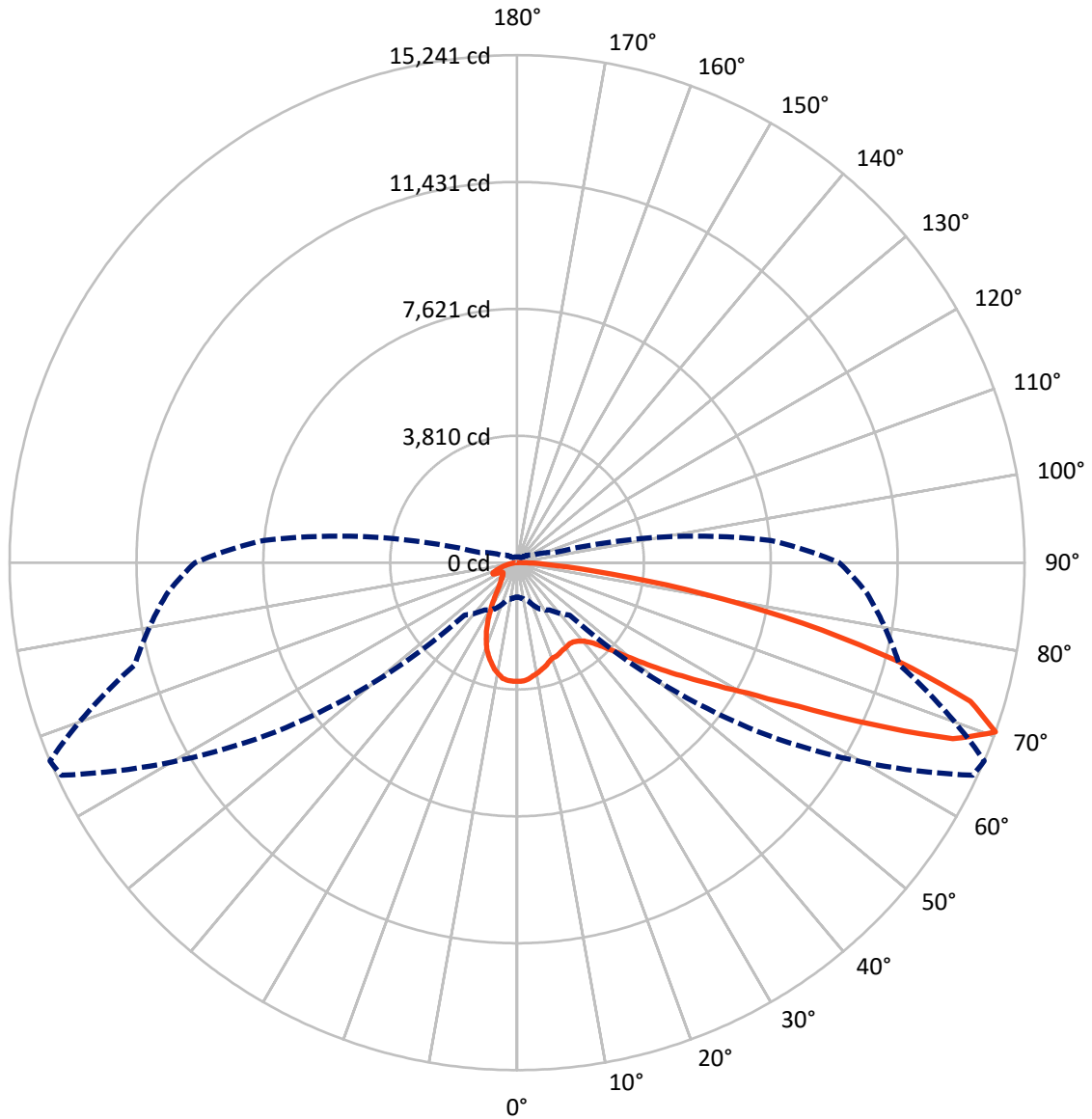
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2995.4	0.0	2995.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12384.5	0.0	12384.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15379.9	0.0	15379.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.6	2.0
10°-20°	744.0	4.8
20°-30°	1004.7	6.5
30°-40°	1344.4	8.7
40°-50°	1976.9	12.9
50°-60°	3081.5	20.0
60°-70°	3795.9	24.7
70°-80°	2682.2	17.4
80°-90°	439.6	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15379.9	100.0
0°-180°	15379.9	100.0



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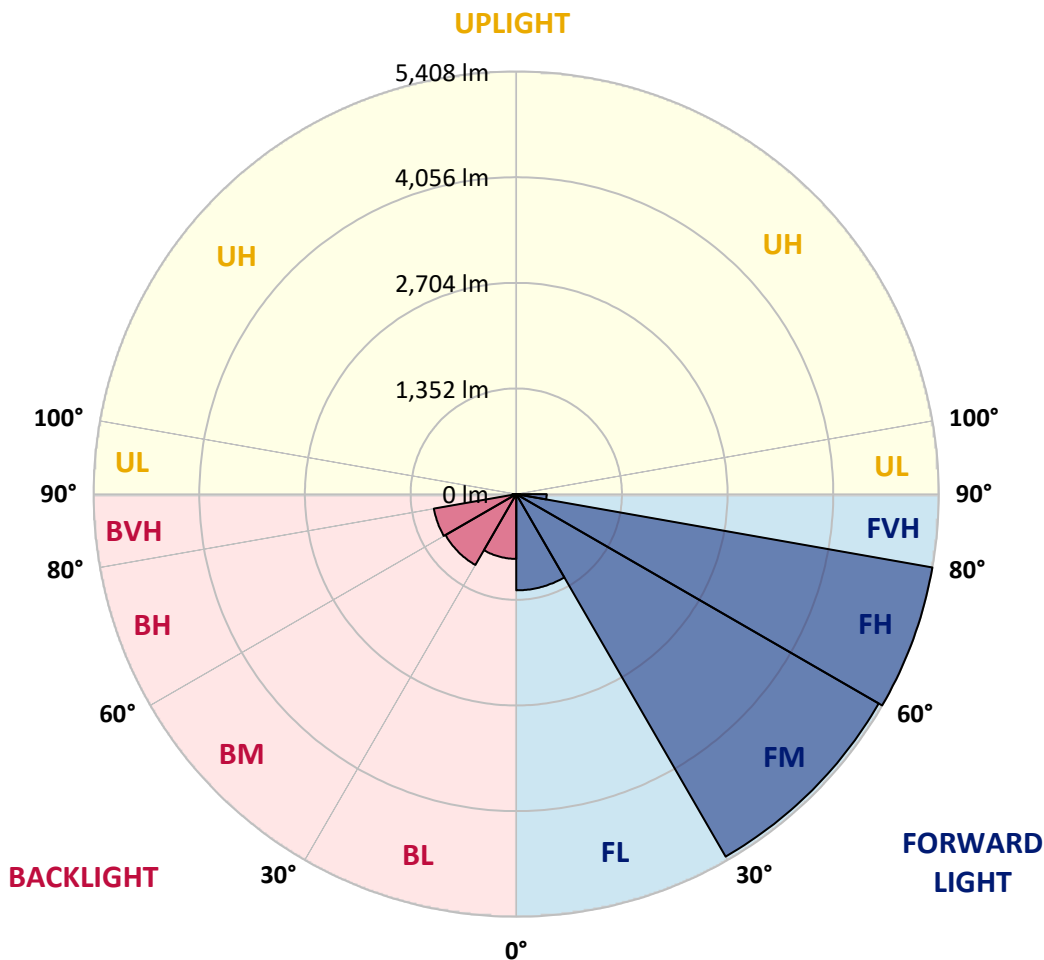
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.0	8.0			
FM (30°-60°)	5356.5	34.8			
FH (60°-80°)	5408.1	35.2			G3/7500
FVH (80°-90°)	388.9	2.5			G3/500
BL (0°-30°)	828.3	5.4	B2/1000		
BM (30°-60°)	1046.4	6.8	B2/2500		
BH (60°-80°)	1070.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	50.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4
2.5°	3315.2	3352.7	3366.3	3386.7	3439.5	3478.7	3502.5	3529.7	3562.1	3589.3	3606.4
5°	3083.6	3104.1	3136.4	3158.6	3225.0	3330.5	3402.0	3517.8	3514.4	3557.0	3621.7
7.5°	2858.9	2879.3	2894.6	2938.9	3034.3	3129.6	3260.7	3448.0	3434.4	3533.1	3633.6
10°	2719.2	2703.9	2709.0	2784.0	2858.9	2966.1	3131.3	3322.0	3371.4	3524.6	3667.7
12.5°	2588.1	2571.1	2612.0	2659.7	2751.6	2848.7	3046.2	3218.1	3293.1	3494.0	3683.0
15°	2506.4	2494.5	2545.6	2566.0	2675.0	2790.8	2930.4	3139.8	3221.6	3456.5	3659.2
17.5°	2460.4	2470.7	2489.4	2533.7	2603.5	2702.2	2855.5	3087.0	3122.8	3410.6	3654.0
20°	2468.9	2480.9	2482.6	2501.3	2549.0	2625.6	2782.2	3030.8	3054.7	3402.0	3667.7
22.5°	2537.1	2520.0	2526.8	2514.9	2528.5	2588.1	2726.1	2955.9	3047.9	3330.5	3638.7
25°	2639.2	2615.4	2612.0	2571.1	2545.6	2562.6	2715.8	2937.2	2996.8	3308.4	3637.0
27.5°	2819.7	2784.0	2784.0	2722.7	2618.8	2591.5	2686.9	2906.5	2959.3	3288.0	3597.9
30°	2993.4	2993.4	2995.1	2908.3	2792.5	2658.0	2698.8	2894.6	2928.7	3226.7	3545.1
32.5°	3204.5	3199.4	3190.9	3148.3	2969.5	2768.6	2756.7	2879.3	2896.3	3206.2	3529.7
35°	3410.6	3396.9	3463.3	3425.9	3243.7	2984.9	2816.3	2886.1	2923.6	3175.6	3482.1
37.5°	3565.5	3574.0	3711.9	3735.8	3579.1	3230.1	2984.9	2954.2	2990.0	3219.8	3482.1
40°	3766.4	3800.5	3929.9	4009.9	3914.6	3553.6	3252.2	3068.3	3093.8	3318.6	3557.0
42.5°	4030.3	4059.3	4224.5	4328.3	4301.1	3965.6	3516.1	3306.7	3286.3	3483.8	3669.4
45°	4379.4	4384.5	4551.4	4694.4	4750.6	4396.4	3935.0	3608.1	3591.0	3768.1	3875.4
47.5°	4794.9	4789.8	4893.6	5046.9	5198.4	4910.7	4416.9	4066.1	4004.8	4175.1	4217.6
50°	5196.7	5174.6	5198.4	5394.2	5685.4	5554.3	5002.6	4626.3	4565.0	4658.6	4731.9
52.5°	5418.1	5445.3	5380.6	5639.4	6203.0	6315.4	5779.0	5295.5	5242.7	5288.7	5416.4
55°	5263.1	5319.3	5276.7	5521.9	6429.5	7243.4	6783.6	6070.2	6002.1	5985.1	6194.5
57.5°	4604.2	4706.3	4714.8	5103.1	6351.2	7961.9	8196.9	6984.6	6882.4	6708.7	6925.0
60°	3534.9	3637.0	3715.3	4175.1	5680.3	8391.0	9834.9	8285.4	7948.3	7498.8	7628.2
62.5°	2477.5	2547.3	2625.6	2908.3	4379.4	8139.0	11251.6	10117.6	9496.1	8331.4	8493.2
65°	1804.9	1859.4	1939.4	2106.3	2690.3	6734.3	11908.8	12293.7	11704.5	9390.5	9370.1
67.5°	1358.8	1392.8	1498.4	1765.7	1864.5	4159.8	11227.8	14592.3	14115.6	10567.1	10075.0
70°	1028.4	1057.4	1156.1	1522.2	1741.9	2230.6	8857.6	15104.9	15241.1	11886.7	10548.4
72.5°	708.3	740.7	851.4	1268.5	1658.5	1769.1	5559.4	13722.2	14238.2	12429.9	10041.0
75°	434.2	456.3	521.0	962.0	1646.5	1730.0	3059.8	11244.8	11791.4	11484.9	8784.3
77.5°	306.5	304.8	316.7	563.6	1426.9	1740.2	1886.6	8239.5	8770.7	8464.2	5961.2
80°	223.1	224.8	236.7	337.1	968.8	1769.1	1486.5	5518.5	5676.9	4413.5	2351.5
82.5°	134.5	141.3	170.3	228.2	582.3	1597.2	1374.1	3066.6	2869.1	1416.7	647.0
85°	71.5	71.5	100.5	144.7	309.9	1191.9	1323.0	1459.2	1222.6	439.3	240.1
87.5°	17.0	17.0	28.9	57.9	124.3	570.4	902.4	580.6	464.8	148.1	98.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4	3560.4
2.5°	3599.6	3579.1	3604.7	3553.6	3512.7	3514.4	3451.4	3448.0	3439.5	3395.2	3410.6
5°	3640.4	3623.4	3594.4	3538.3	3448.0	3357.8	3303.3	3233.5	3204.5	3189.2	3196.0
7.5°	3679.6	3648.9	3565.5	3487.2	3347.6	3177.3	3078.5	2984.9	2865.7	2852.1	2828.2
10°	3689.8	3625.1	3517.8	3351.0	3165.4	2976.4	2751.6	2577.9	2486.0	2414.5	2387.2
12.5°	3674.5	3647.2	3441.2	3226.7	2945.7	2649.4	2387.2	2142.0	1971.8	1883.2	1859.4
15°	3672.8	3625.1	3356.1	3037.7	2678.4	2291.9	1919.0	1624.4	1445.6	1372.4	1372.4
17.5°	3674.5	3560.4	3255.6	2847.0	2363.4	1840.6	1430.3	1188.5	1089.7	1079.5	1088.0
20°	3640.4	3512.7	3150.0	2622.2	1968.3	1382.6	1038.7	939.9	939.9	953.5	958.6
22.5°	3609.8	3441.2	2983.2	2344.6	1566.5	1001.2	844.6	815.6	848.0	871.8	882.0
25°	3567.2	3381.6	2812.9	2056.9	1191.9	807.1	733.9	740.7	771.3	813.9	810.5
27.5°	3505.9	3277.7	2610.3	1723.2	887.1	696.4	677.7	681.1	713.4	732.2	728.8
30°	3436.1	3172.2	2423.0	1391.1	703.2	638.5	636.8	645.3	650.4	660.7	659.0
32.5°	3347.6	3032.5	2223.8	1081.2	633.4	606.2	599.4	594.3	599.4	597.7	592.5
35°	3284.6	2957.6	2021.1	824.1	594.3	577.2	572.1	563.6	556.8	546.6	544.9
37.5°	3267.5	2882.7	1808.3	672.6	563.6	555.1	538.1	522.7	514.2	509.1	505.7
40°	3257.3	2833.3	1600.6	590.8	538.1	529.5	509.1	488.7	480.2	475.1	476.8
42.5°	3293.1	2806.1	1389.4	550.0	515.9	500.6	478.5	454.6	452.9	449.5	454.6
45°	3419.1	2840.1	1193.6	521.0	493.8	468.2	439.3	427.4	425.7	422.3	425.7
47.5°	3705.1	2925.3	1026.7	502.3	470.0	447.8	417.2	400.1	398.4	396.7	396.7
50°	4100.2	3187.5	887.1	480.2	454.6	424.0	395.0	376.3	372.9	366.1	366.1
52.5°	4719.9	3628.5	803.7	468.2	427.4	401.8	371.2	350.8	342.2	335.4	335.4
55°	5418.1	4175.1	788.4	447.8	398.4	374.6	347.4	326.9	318.4	309.9	306.5
57.5°	6213.2	4898.7	897.3	434.2	378.0	347.4	316.7	298.0	291.2	282.7	279.2
60°	6953.9	5620.7	1236.2	413.8	359.3	321.8	291.2	272.4	263.9	255.4	255.4
62.5°	7810.4	6514.6	1810.0	413.8	342.2	294.6	263.9	250.3	245.2	236.7	235.0
65°	8823.5	7439.2	2228.9	439.3	337.1	270.7	238.4	224.8	219.7	214.5	212.8
67.5°	9594.8	7970.4	1917.3	507.4	359.3	250.3	212.8	204.3	200.9	195.8	192.4
70°	9676.6	7646.9	1156.1	548.3	381.4	229.9	190.7	182.2	182.2	177.1	173.7
72.5°	8942.7	6785.4	778.1	488.7	345.7	206.0	168.6	161.8	158.4	154.9	153.2
75°	7483.5	5755.2	614.7	389.9	265.6	170.3	146.4	139.6	134.5	132.8	129.4
77.5°	5026.4	3740.9	454.6	304.8	195.8	137.9	122.6	115.8	110.7	109.0	103.9
80°	1930.9	1425.2	292.9	221.4	137.9	109.0	97.1	90.2	86.8	81.7	78.3
82.5°	568.7	461.4	163.5	136.2	88.5	74.9	69.8	64.7	59.6	54.5	52.8
85°	235.0	211.1	100.5	71.5	54.5	44.3	40.9	35.8	30.6	27.2	23.8
87.5°	109.0	90.2	46.0	27.2	18.7	10.2	5.1	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)